April 14, 2022

City Of Colorado Springs
City Engineering
Permanent Control Measure (PCM) Plan Checklist

This checklist is to be used for all Permanent Control Measure (PCM) Plans. This checklist is not meant to be all-inclusive; the site engineer is responsible for following all stormwater criteria.

Plan Document

The site plan must show, at the minimum, the following:

1. The plan at a maximum scale of 1-inch to 100 feet.
2. General vicinity map – A map showing relationship of the site to existing and planned roadways, jurisdictional boundaries, major creeks, and streams.
3. Plan set labeled as Public/Private PCM Plan
4. Subdivision/PCM name – The name as it appears on the Final Subdivision Plat. If the PCM is sub-regional or regional and has a different name than the development, include the PCM name and associated development name in the title.
5. Project Data to include the following:
    a. Parcel number that the PCM is located within
    b. Report containing PCM design calculations, including STM-REVXX-XXXX review number
    c. Responsible party for functional maintenance of the PCM structures
    d. Responsible party for aesthetic maintenance of the PCM
    e. 100-yr water surface elevation
    f. EURV water surface elevation
    g. WQCV water surface elevation
6. Standard PCM Notes
7. Cost Estimate – Include an itemized cost estimate with item description, quantity, and unit price. For public PCMs, a 10% engineering contingency must be included. For private PCMs, a minimum of 10% engineering contingency must be included. A total cost for the PCM must also be included. Financial assurances in the amount of the cost estimate must be posted prior to PCM Plan approval.
8. Signature blocks – Signature blocks as shown below
9. North Arrow and Bar Scale
10. Property lines for the site on which the work will be performed are shown and labeled.
11. Existing topography at one or two foot contour intervals. The map should extend a

minimum of 50-feet beyond the PCM limits. PCM limits for the purpose of this checklist include all access to the PCM.

12. Proposed topography at one or two foot contour intervals. The map should extend a minimum of 50-feet beyond the PCM limits.
13. Slope labels for side slopes, bottom of PCM, maintenance access and low-flow channel (if provided)
14. Existing or proposed water courses – to include, but not limited to, groundwater springs, streams, wetland, or other surface waters.
15. FEMA 100-yr floodplain boundaries with label
16. Location of all drainage features – to include, but not limited to storm sewer, other PCMs, etc. All drainage infrastructure must be labeled as public or private.
17. Location and labeling of all easements within the PCM limits.
18. Vegetation – Include reference to Landscaping Plan or include landscaping details
19. Boring locations – if using full infiltration
20. 100-Year water surface elevation line is shown and labeled in plan view (or WQCV water surface elevation if facility provides water quality treatment only).
21. Maintenance Path – shown and labeled
22. Overflow routing – emergency overflow routing direction labeled.
23. Utility locations and easements - grading over existing utilities or within dedicated easements is restricted
24. Construction Details – Structural details and associated notes for all proposed structures within the PCM. Conceptual drawings from the DCM and MHFD manual do not meet this requirement. Standard CDOT reinforcement details are acceptable where permitted by criteria. Standard CDOT details cannot be used for riprap sizing.
25. Material Specifications – Include material specifications for items such as filter materials, underdrains, etc.

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Standard Permanent Control Measure Plan Notes

1. This PCM Plan will be subject to re-review and re-acceptance by SWENT if work on the PCM does not commence within twelve (12) months of plan approval, or should any of the following occur: a change in property ownership, proposed development changes, or proposed PCM revisions.
2. The contractor should contact the Engineer of Record and SWENT Lead Reviewer immediately should construction of the PCM vary in any way from the plans.
3. A Professional Engineer (PE) Certification that the PCM has been installed and constructed in general conformance with these plans will be required once the PCM is fully constructed. An as-constructed survey must be completed to verify facility volumes and elevations. The as-built drawings must be submitted along with the PE Certification. A PE certification requires periodic on-site observations by the Engineer of Record or a person under their responsible charge. Coordination with the Engineer of Record to ensure that the necessary on-site observations are completed is the responsibility of the applicant.
4. Acceptance of this plan does not constitute approval to grade or cause any disturbance within in any utility easement or Right-of-Way. Approvals to work within utility easements must be obtained from the appropriate utility company. It is not permissible for any person to modify the grade of the earth on any utility easement or Right-of-Way without the appropriate written approval. The plan shall not increase or divert water toward utility facilities. Any changes to existing utility facilities to accommodate the plan must be approved by the affected utility owner prior to implementing the plan. The applicant is responsible for the cost to relocate or protect existing utilities or to provide interim access.

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PCM Plan Signature Blocks

Engineer's Statement:
This Permanent Control Measure (PCM) Plan was prepared under my direction and supervision, was designed in accordance with the City of Colorado Springs Drainage Criteria Manual (May 2014), and is correct to the best of my knowledge and belief. I accept responsibility for any liability caused by any negligent acts, error or omissions on my part in preparation of this PCM Plan.

Signature: Date:
Printed Name:
Email address: Seal

Developer's Statement:
{Name of Developer} hereby certifies that the PCM for {Name of Development} shall be constructed according to the design presented in this plan. I understand that the City of Colorado Springs does not and will not assume liability for the drainage facilities designed and/or certified by my engineer and that are submitted to the City of Colorado Springs pursuant to section 7.7.906 of the City Code; and cannot, on behalf of {Name of Developer}, guarantee that the final drainage design review will absolve {Name of Developer} and/or their successors and/or assigns of future liability for improper design.

Name of Developer:
Authorized Signature: Date:
Printed Name:
Title:
Address:

City of Colorado Springs Statement:
Filed in accordance with Section 7.7.906 of the Code of the City of Colorado Springs, 2001, as amended.

_____
For City Engineer Date

Conditions:

Condition statement to be added to the City signature block if the PCM contains an embankment that is 0.5-feet or greater:
"The City of Colorado Springs approves these plans based upon the non-jurisdictional status of the facility. It is the design engineer's responsibility to follow up with the State Division of Water Resources for jurisdictional determination. If upon State review the classification changes to Jurisdictional, additional City review and approval will be necessary."